

## CONTROL PANELS



The **Sentinel Series** of control panels from United Process Controls brings you the very best technology to monitor oxygen, dewpoint and carbon in situations where an in-situ probe is not practical.

### Ideal for Atmospheres including

- Endothermic Gas ( $N_2 + CO + H_2O$ )
- Nitrogen/Methanol ( $N_2 + CH_3OH$ )
- Nitrogen/Natural Gas ( $N_2 + CH_4$ )
- Nitrogen/Propylene ( $N_2 + C_3H_6$ )
- Nitrogen/Acetylene ( $N_2 + C_2H_2$ )
- Nitrogen/Hydrogen ( $N_2 + H_2$ )
- Nitrogen ( $N_2$ )

## FEATURES & BENEFITS

- Fast response times
- Low sensor replacement cost
- No equipment modifications required
- Simple set-up and calibration

## SENTINEL-ES™ FOR OXYGEN

The Sentinel-ES™ and Sentinel-ESi™ remotely measures oxygen content (PPM levels) for use in calculating dewpoint and oxidation reduction (ReDox potential) in applications running at temperatures or with environments too hostile or impractical to use in-situ probes. With a replacement (not rebuild) cost less than one-third that of conventional probes, the Sentinel-ES™ and Sentinel-ESi™ are an ideal solution for trouble-free and cost-effective control of endo generators.

- 10X faster response than conventional probes
- Up to 100X faster than reheat wells
- No modifications to your furnace or generator – just plumbing
- Lowest sensor replacement cost
- Simplest set-up and calibration available
- No hidden “maintenance kit,” calibration or service costs
- No costly extras like burn-off, reference air or timers needed

## SENTINEL-DPI™ FOR DEWPOINT

The Sentinel-DPI™ monitors and controls a wide range of dewpoint in pre-selected temperature ranges between -40°C to 60°C (-40°F to 140°F). The Sentinel-DPI™ is a NIST traceable solution that offers unmatched performance in dewpoint applications such as generators, annealers, brazing, etc.

For applications where a controller is not required, the Sentinel-DP™ is the more suitable and lower cost option.

## SPECIFICATIONS

**Power Requirements:** 120V/60Hz

**Input:** Standard 1/4" Sample Line Connection  
(Max Inlet Temperature 125°F)

**Filtration:** 100 Micron Bowl Filter (ES and ESi)  
40 Micron Air Filter (FCP)  
10 Micron Replaceable Sintered  
Stainless Steel Filter (ES, ESi and FCP)

**Flow Meter:** 0.2 - 2.0 CFH

## SENTINEL-ESi™ GENERATOR CONTROLLER

The Sentinel-ESi™ has all the advantages of the acclaimed Sentinel-ES™ with the added benefit of an integrated controller and ringback alarm circuit with horn.



## ORDERING INFORMATION

PART #	TYPE	ENCLOSURE DIMENSIONS	SENSOR TYPE	OUTFITTED WITH	AVAILABILITY	
					USA	GLOBAL
F100070	ES	14" x 12" x 6" 356 mm x 305 mm x 152 mm	Lambda		●	
F100070DP	DP	14" x 12" x 6" 356 mm x 305 mm x 152 mm	Dewpoint			■
F100071DC	ESi	24" x 20" x 8" 610 mm x 508 mm x 203 mm	Lambda	• Dewpoint • Controller	●	
F100071DPI	DPI	24" x 20" x 8" 610 mm x 508 mm x 203 mm	Dewpoint	• Dewpoint Transducer		■
F100078	ESi	24" x 20" x 8" 610 mm x 508 mm x 203 mm	Lambda	• Smart Transmitter	●	

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